AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claims 1-55 (canceled)

56. (original): A method of fabricating thin film transistors, comprising:

forming at least one conductive film on a substrate;

immersing said substrate in a dopant; and

delivering a laser beam to a plurality of independently selectable locations on said substrate to induce a reaction between said dopant and said conductive film at said independently selectable locations.

57. (original): The method claimed in claim 56, wherein said conductive film comprises a semiconductor film..

58. (original): The method claimed in claim 56, wherein said conductive film comprises silicon.

59. (original): The method claimed in claim 58, wherein said conductive film is deposited on an insulating substrate.

60. (original): The method claimed in claim 59 and wherein said insulating substrate comprises glass.

61. (original): The method claimed in claim 56, wherein said locations correspond to locations whereat transistors are to be formed in said conductive film.

- 62. (original): The method claimed in claim 56, wherein said immersing said substrate comprises showering ionized molecules onto said substrate.
- 63. (original): The method claimed in claim 56, wherein said delivering a laser beam comprises splitting a first laser beam into a plurality of sub-beams, and delivering said sub-beams to mutually independently selectable locations.
- 64. (original): The method claimed in claim 56, wherein said delivering a laser beam comprises scanning a pulsed laser beam across a surface, and synchronizing said scanning with pulses defining said pulsed laser beam to deliver at least one pulse to a selectable location.
- 65. (original): The method claimed in claim 64, wherein said delivering a laser beam further comprises modulating said laser beam to deliver said pulses exclusively to said selected locations.
- 66. (original): The method claimed in claim 56, wherein said delivering a laser beam comprises delivering said laser beam to said selectable locations that are at least partially isolated from other said selectable locations.
- 67. (original): The method claimed in claim 56, wherein said delivering comprises delivering said laser beam to said selectable locations that vary from other said selectable locations in size.
- 68. (original): The method claimed in claim 56, wherein said delivering comprises delivering said laser beam to said selectable locations that vary from other said selectable locations in spacing.
- 69. (original): The method claimed in claim 56, wherein said delivering a laser beam comprises modulating an energy characteristic of said laser beam.

- 70. (original): The method claimed in claim 69, wherein said delivering a laser beam comprises delivering said laser beam with a first modulated energy characteristic to a first independently selectable location, and then delivering said laser beam with a second modulated energy characteristic to a second independently selectable location.
- 71. (original): The method claimed in claim 56, wherein said delivering a laser beam comprises delivering a pulsed laser beam having a pulse repetition rate of greater than 5 KHz.
- 72. (original): The method claimed in claim 56, further comprising individually heating each of said selectable locations to at least partially melt said conductive film thereat.
- 73. (original): The method claimed in claim 56, wherein said delivering a laser beam comprises selecting locations during operation of a laser supplying said laser beam.
- 74. (original): The method claimed in claim 56, wherein said delivering a laser beam comprises selecting locations during performing a reaction induction operation on said conductive film.
- 75. (original): The method claimed in claim 73, wherein said selecting comprises steering said laser beam to said selectable locations.
- 76. (original): The method claimed in claim 73, wherein said selecting comprises scanning said laser beam and modulating the beam during scanning.
- 77. (original): The method claimed in claim 56, wherein said delivering a laser beam comprises delivering said laser beam to said independently selectable locations without an intervening photo mask.

78. (original): The method claimed in claim 77, wherein said delivering a laser beam comprises selecting said independently selectable locations during operation of a laser supplying said laser beam.

79. (original): Thin film transistors on a substrate produced according to the method of claim 56.

Claims 80-110 (canceled)

111. (original): A method of producing thin film transistors on a substrate, comprising: generating a laser beam;

splitting said laser beam into a plurality of selectably positionable sub-beams; and directing each of said sub-beams to selectable areas on said substrate where said transistors are to be formed in the presence of a doping gas to induce a reaction between said substrate and said doping gas at said selectable areas.

- 112. (original): The method according to claim 111, wherein each of said selectable areas is at least partially isolated from another one of said selectable areas.
- 113. (original): The method according to claim 111, wherein at least one of said selectable areas vary from each other in size and spacing.
- 114. (original): The method according to claim 111, wherein said laser beam is a pulsed laser beam having a pulse repetition rate of greater than 5 KHz.
- 115. (original): The method according to claim 111, wherein said sub-beams are independently guided so as to interact with said doping gas and with said substrate surface, at each of said selectable areas.

- 116. (original): The method according to claim 111, further comprising individually heating each of said selectable areas thereby forming bases of said transistors.
- 117. (original): A thin film transistor formation system comprising:
 - a laser generating at least one laser beam;
- a laser beam director directing said laser beams to selectable locations on a substrate in contact with a reactant,

wherein said laser beams are independently guided.

- 118. (original): The thin film transistor formation system according to claim 117, further comprising beam shaping lens to vary shape of said beams.
- 119. (original): The thin film transistor formation system according to claim 117, wherein said laser has a total average power of less than 50W.
- 120. (original): The thin film transistor formation system according to claim 117 further comprising a beam splitter splitting said laser beam into a plurality of sub-beams and a reflector configured to independently guide said sub-beams to locations on said substrate, wherein said reflector comprises a plurality of micromirrors directionally controlling each of said sub-beams.
- 121. (original): The thin film transistor formation system according to claim 120, wherein said sub-beams are focused by at least one focusing lens.
- 122. (original): The thin film transistor formation system according to claim 117, further comprising:
- a processing chamber where said substrate is to be treated with said at least one laser beam;

a gas supply unit configured to supply a gas containing said reactant to said processing chamber, said substrate to be immersed in said gas during treatment with said at least one laser beam; and

a gas purging unit purging gas from said processing chamber.

- 123. (original): The thin film transistor formation system according to claim 122, wherein said gas reacts with said substrate when subject to said at least one laser beam at said selectable areas.
- 124. (original): The thin film transistor formation system according to claim 117, further comprising a controller controlling at least one of a fluence property of said at least one laser beam, a pulse rate of said at least one laser beam and a quantity of pulses impinging said substrate.
- 125. (original): The thin film transistor formation system according to claim 117, wherein said laser is a non-excimer pulsed laser.
- 126. (original): A method of manufacturing an array of thin film transistors, comprising: depositing amorphous silicon on a substrate;

crystallizing said amorphous silicon by applying laser energy to said amorphous silicon at a plurality of selectable locations;

applying P type doping to portions of crystallized silicon by delivering laser energy to a plurality of selectable locations in presence of a P type doping agent.

- 127. (original): The method claimed in claim 126, wherein said applying P type doping comprises forming PMOS channels.
- 128. (original): The method claimed in claim 126, further comprising:

applying N type doping to portions of crystallized silicon by delivering laser energy to said plurality of selectable locations in presence of an N type doping agent.

- 129. (original): The method claimed in claim 128, wherein said applying N type doping comprises forming NMOS channels.
- 130. (original): The method claimed in claim 127, further comprising:

applying N type doping to portions of crystallized silicon by delivering laser energy to said plurality of selectable locations in presence of an N type doping agent.

- 131. (original): The method claimed in claim 130, wherein said applying N type doping comprises forming NMOS channels.
- 132. (original): The method claimed in claim 131, further comprising forming dielectric gates.
- 133. (original): The method claimed in claim 131, further comprising:

laser treating crystallized silicon at said selectable locations to hydrogenate said selectable locations.

134. (original): The method claimed in claim 132, further comprising:

laser treating said selectable locations in said crystallized silicon in the presence of said P doping agent to form PMOS type source/drains.

135. (original): The method claimed in claim 134, further comprising:

laser treating selected areas in said crystallized silicon in the presence of said N doping agent to form NMOS type source/drains.

136. (original): The method claimed in claim 126, wherein at least one of dehydrogenating, crystallizing said silicon, doping and hydrogenating is performed without masking.

137. (original): Thin film transistors on a substrate produced according to the method of claim 126.